



US 20220074765A1

(19) **United States**(12) **Patent Application Publication**
BIALASCHIK et al.(10) **Pub. No.: US 2022/0074765 A1**(43) **Pub. Date: Mar. 10, 2022**(54) **DEVICE AND METHOD FOR
CONTACTLESSLY DETERMINING A
POSITION OF A PEDAL**(71) Applicant: **Hella GmbH & Co. KGaA**, Lippstadt
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(DE)(21) Appl. No.: **17/526,761**(22) Filed: **Nov. 15, 2021****Related U.S. Application Data**(63) Continuation of application No. PCT/EP2020/
061131, filed on Apr. 22, 2020.(30) **Foreign Application Priority Data**

May 14, 2019 (DE) 10 2019 112 572.3

Publication Classification(51) **Int. Cl.**
G01D 5/14 (2006.01)**G05G 1/38** (2006.01)(52) **U.S. Cl.**
CPC **G01D 5/145** (2013.01); **B60T 7/042**
(2013.01); **G05G 1/38** (2013.01)(57) **ABSTRACT**

A device for contactlessly determining a position of a pedal in a vehicle, having at least a magnet and a sensor, wherein the magnet produces a magnetic field that varies with the position of the pedal and detected by the sensor. The sensor has an output for providing at least one sensor signal. A first and a second position range are defined, wherein each position range includes positions of the magnet with respect to the sensor. The processor generates an output signal from the at least one sensor signal. The output signal takes on values that are unambiguously associated with a position of the magnet relative to the sensor in the first position range, and takes on a constant value that is independent of the position of the magnet relative to the sensor in the second position range.

